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CENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

25X1A

COUNTRY Greece

SUBJECT Construction of Aliveri Power Station

PLACE ACQUIRED (BY SOURCE) [REDACTED] 25X1A

DATE ACQUIRED (BY SOURCE) [REDACTED] 25X1C

DATE (OF INFO.) [REDACTED]

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SOURCE [REDACTED] 25X1X

1. The Aliveri Power Station (38° 23' 15" N x 24° 3' 6" E) is located on the west coast of the island of Euobea, about 25 miles south of the city of Chalcis. The station is on the east coast of Aliveri Bay and south of the village of Aliveri.
2. This station is approximately 60 per cent completed at the present time. The schedule calls for the station to be completed by April 1953 and to go into operation in July 1953. [REDACTED] they will not meet this schedule but that it should be completed shortly after these dates. Transmission lines from the station to Athens are scheduled for completion at the same time. The plant is a combination of US and European equipment. Principal problems have been difficulty in obtaining materials in the US and some difficulty with labor at the plant site. Greek laborers are being used, and while they are very slow, they do a creditable job.
3. Most of the power generated will be used in the city of Athens. Athens' main supplier of power is the Athens-Pireaus Power Company. At present, all power is generated by oil which must be imported. One of the reasons for the construction of this plant is the location nearby of large amounts of peat. The boilers of the plant will be constructed so as to utilize this peat for heat.
4. The plant will be a semi-outdoor plant. Most buildings are being constructed of reinforced concrete because of shortages of other materials. Generating equipment will consist of four Babcock-Wilcox boilers, capacity 182,000 lbs./hr., adapted to peat, and two 30,000 kw steam turbine generators, 3000 RPM,

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manufactured by AEG (Allgemeine Elektrizität Gesellschaft) in West Berlin. These generators are classed as 34,000 kw, and have a maximum capability of 37,500 kw. Transformers are being produced in Italy by Magrini Bergamo. The four boilers have arrived and are being put in place. One of the turbines has arrived and will be put in place as soon as the turbine foundations are completed. The other turbine is scheduled for shipment from Berlin on 15 July. No trouble is anticipated so far as completion and shipment are concerned. The two steam condensers, 2800 sq. meters each, were purchased from AEG and have been delivered.

5. The peat deposits are located to the north of Aliveri and have been used locally for centuries. These deposits will be developed on a large scale by a US engineering company and a narrow gauge railroad will be constructed for transport of peat from the mines to the power station. Chemical analysis of the peat is as follows:

	<u>Per Cent</u>
Carbon	29
Hydrogen	6
Oxygen	39
Sulfur	1
Ash	25

6. Physical analysis is as follows:

Moisture	35
Volatile matter	24
Fixed carbon	16
Ash	25
Sulfur	.8

Heating Value (high) - 2780 kg calories/kg
 Fusing Temp Ash - 1180° C
 Ash Fluid Temp - 1205° C
 Grindability (Hardgrove) - 22

[Available on loan from the CIA Library are the following drawings of the Aliveri Station:

- ✓1. Switchyard Layout Section and Details; 27 June 1952; Dwg 3032-1
- ✓2. Switchyard Layout Plan; 27 June 1952; Dwg 3031-1
- ✓3. Plot Plan and Yard; 1:1000; June 1951; Dwg 2101-2
- ✓4. Basement Floor Plan; 1:100; October 1951; Dwg 2102-2
- ✓5. Operating Floor Plan; 1:100; October 1951; Dwg 2103-1
- ✓6. Plans of Platforms and Floors at Top of Bunker, Drum Level, Deaerating Heater No. 3 and Heater No. 3 Storage Tank; 1:100; October 1951; Dwg 2105-1
- ✓7. General Arrangement Cross Sectional Elevation "B-B" and Section "D-D"; 1:100; October 1951; Dwg 2107-1

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- ✓ 18. General Arrangement Cross Sectional Elevation "A-A"; 1:100; October 1951; Dwg 2106-1
- ✓ 19. General Arrangement Longitudinal Section Elevation "C-C"; 1:100; October 1951; Dwg 2108-1
- ✓ 10. Grading Plan; 1:500; October 1951; Dwg 4001-6
- ✓ 11. East Elevation; 1:100; October 1951; Dwg 4301-3
- ✓ 12. North Elevation; 1:100; June 1952; Dwg 4302-3
- ✓ 13. South Elevation; 1:100; June 1952; Dwg 4303-3
- ✓ 14. West Elevation; 1:100; June 1952; Dwg 4304-3
- ✓ 15. Basement Floor Plan; 1:100; June 1952; Dwg 4305-3
- ✓ 16. Operating Floor Plan and Top of Bunker Plan; 1:100; June 1952; Dwg 4306-3
- ✓ 17. Office Building, Plans and Elevations; varying scales; January 1952; Dwg 4315
- ✓ 18. Service Building, Plans and Elevations; varying scales; April 1952; Dwg 4317-1
- ✓ 19. Chlorine House, Ash-Disposal Blower House and Motor Control Center Enclosure; varying scales; June 1952; Dwg 4319-1
- ✓ 20. Operating Floor-Boiler Room; varying scales; June 1952; Dwg 4010-2
- ✓ 21. Miscellaneous Platforms in Boiler Room Sheet No. 1; varying scales; June 1952; Dwg 4011-1
- ✓ 22. Miscellaneous Platforms in Boiler Room Sheet No. 2; varying scales; June 1952; Dwg 4012-1
- ✓ 23. Harbor Improvement Drawing; 1:1000; June 1952; Dwg 4014
- ✓ 24. Turbo-Generator Enclosure; 1:100; May 1952; Dwg 4020-2
- ✓ 25. Lignite Bunker Enclosure; varying scales; June 1952; Dwg 4022-1
- ✓ 26. Basement Plant; 1:100; June 1952; Dwg 4054-2
- ✓ 27. Building Framing-Column Row No. 5; varying scales; February 1952; Dwg 4056-3
- ✓ 28. Building Framing-Column Row No. 6; varying scales; February 1952; Dwg 4057-3
- ✓ 29. Operating Floor Framing Turbine Room and Bunker Bay; 1:100; November 1951; Dwg 4061-3
- ✓ 30. Operating Floor - Turbine Room and Bunker Bay Bolting Plan - Sections and Details; varying scales; May 1952; Dwg 4062-7

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- ✓ 31. Heater Storage Tank Floor; varying scales; February 1952; Dwg 4063-7
- ✓ 32. Column Schedule; varying scales; February 1952; Dwg 4064-7
- ✓ 33. Transverse Framing - Bunker Bay; varying scales; February 1952; Dwg 4065-7
- ✓ 34. Operating Floor Turbine Room and Bunker Bay Sections and Details; varying scales; March 1952; Dwg 4069-5
- ✓ 35. Turbo-Generator Foundation; varying scales; January 1952; Dwg 4070-3
- ✓ 36. Turbo-Generator Foundation Sections and Details - Sheet No. 1; varying scales; December 1952; Dwg 4071-2
- ✓ 37. Turbo-Generator Foundation Sections and Details - Sheet No. 2; varying scales; December 1952; Dwg 4072-2
- ✓ 38. Turbo-Generator Foundation Sections and Details - Sheet No. 3; varying scales; January 1952; Dwg 4087-3
- ✓ 39. Turbo-Generator Foundation Piers - Sections and Details; 1:50; November 1951; Dwg 4088-2
- ✓ 40. Turbo-Generator Foundation Sections and Details - Sheet No. 4; 1:50; January 1952; Dwg 4089-3
- ✓ 41. Lignite Bunker Framing; varying scales; June 1952; Dwg 4153-2
- ✓ 42. Zusammenstellung (Section Through Turbine); AEG; 1:10; May 1952; Dwg 571296
- ✓ 43. Entgaser (Deaerator); AEG; varying scales; November 1951; Dwg H 16330a
- ✓ 44. Circulating Water Pump; Halberg; 1:25; March 1952; Dwg C544.7162
- ✓ 45. Anordnung von Kabeln und Klemmbrettern; 1:10 & 1:50; AEG; Dwgs 361654 & 361655
- ✓ 46. Vertikal-Kondensat-Pumpe; 1:25; Halberg; March 1952; Dwg B541.0185
- ✓ 47. Fundamentplan; 1:20; AEG; February 1952; Dwg 428858
- ✓ 48. Vertikal-Kondensat-Pumpe; 1:5; Halberg; September 1951; Dwg B544.01223
- ✓ 49. Deaerator Storage Tank; no scale; Maschinenbau-Aktiengesellschaft Balcke; July 1951; Dwg H 16329a

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- ✓150. Schwaden-Kondensator (Vent Condenser); varying scales; Maschinenbau-Aktiengesellschaft Balcke; July 1951; Dwg H 16331a
- ✓151. Anschlusse f. Oberfl. - Kondensator; 1:20 & 1:5; AEG; July 1951
- 152. Type MFR 150 Oil Poor Circuit Breaker; Magrini Bergamo; October 1951; Dwg A45225
- 153. Type E35SCDR Oil Circuit Breaker; 1:10; Magrini Bergamo; October 1951; Dwg 34921
- ✓154. Drehstrom-01-Transformator (Outline Drawing, Main Transformer); varying scales; AEG; January 1952; Dwg St-9020494
- ✓155. Disposition der Temperaturmessanschlüsse; 1:20; AEG; November 1951; Dwg 348416

Available for inspection and selection from Graphics Register are the following:

1. Aerial photo of peat mine area showing location of new mines, alinement of road and railroad from Aliveri to the mines (1951).
2. Aerial photo, scale 1:2500, of Aliveri Bay, location of the power station, and the city of Aliveri.]

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